

Ref: 7738

September 29, 2020

Ms. Elizabeth Hughes
Town Planner
Concord Planning Division
Town of Concord
141 Keyes Road
Concord, MA 01742

Re: Construction Period Impacts
Proposed Residential Development - 1450 Main Street
Concord, Massachusetts

Dear Ms. Hughes:

Vanasse & Associates, Inc. (VAI) has been asked to render an opinion as to the impacts on the transportation infrastructure during the construction phase of the proposed residential development to be located at 1450 Main Street in Concord, Massachusetts (hereafter referred to as the "Project"). As you are aware, VAI prepared a comprehensive Transportation Impact Assessment for the Project in July 2018 (the "July 2018 TIA") which was review by the Town's independent review consultant The Engineering Corp (TEC) whose comments were summarized in letters dated September 6, 2018 and October 19, 2018, respectively, the latter of which stated that VAI had addressed TEC's comments concerning the July 2018 TIA. In addition, a supplemental assessment was prepared on September 21, 2020 that documented the reduction in traffic and the associated impacts on the transportation infrastructure resulting from a reduction in the number of residential units from 34 dwelling units to 18 dwelling units.

An assessment of construction period impacts is not typically performed as a part of a TIA given that the impacts are temporary in duration and subject to a traffic management plan and specific conditions and regulations that are imposed during the project approval process and building permit issuance. Further, the impacts relative to amount of traffic generated and the times of day during which the activities will occur are typically less impactful than the conditions that are assessed in a TIA. With specific regard to the Project, the general contractor expects that approximately 80 trips per day will be generated during the construction phase of the Project, of which it is expected that approximately 10 truck trips will be generated during the peak-hour of construction activity, which is approximately half the amount of traffic that is predicted to be generated by the Project when complete (approximately 20 vehicle trips during the peak hours).

As documented in the July 2018 TIA and subsequently reviewed by the Town's independent review consultant, ***Main Street affords sufficient capacity to accommodate the relatively small increase in traffic that is predicted to occur during the construction phase of the Project even with consideration of the increase in truck activity (again, approximately 10 truck trips during the peak-hour of construction activity).*** The analyses that were performed as a part of the July 2018 TIA were based on the 34 residential unit proposal that was predicted to generate 386 vehicle trips per day and between 30 and 36 vehicle trips during the peak hours, a larger volume of traffic than will occur during the construction phase of the Project.

Ms. Elizabeth Hughes
September 29, 2020
Page 2 of 2

In addition and as affirmed in our December 21, 2018 Supplemental Access Assessment, sight lines at the Project site driveway intersection with Main Street will 350-feet with the selective removal of trees and vegetation along the Project site frontage on Main Street that are located within the sight triangle areas of the Project site driveway and that will occur with the construction of the Project site driveway. This sight line (350-foot minimum) exceeds the sight distance that is required for safe operation of the access based on an approach speed of 40 miles per hour (mph) along Main Street, which is higher than both the measured 85th percentile vehicle travel speed documented in the July 2018 TIA (38 mph) and the posted speed limit (30 mph). As such, ***access to the Project site for construction vehicles by way of the Project site driveway intersection can be afforded in a safe manner.***

If you should have any questions regarding our assessment of impacts on the transportation infrastructure during the construction phase of the Project, please feel free to contact me.

Sincerely,

VANASSE & ASSOCIATES, INC.



Jeffrey S. Dirk, P.E., PTOE, FITE
Managing Partner

Professional Engineer in CT, MA, ME, NH, RI and VA

JSD/jsd

cc: J. Rhuda – Symes Development & Permitting LLC (via email)
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